

PACIFIC MINE RECLAMATION

Site Tour – October 20, 2004

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PARTICIPANTS ANTICIPATED:

EPA Pete Stevenson, On-Scene Coordinator

FS John Hendrix, Recreation Manager, Pleasant Grove Ranger District
Reese Pope, Ecosystem Group Leader, Supervisor's Office
Maggie Manderbach, CERCLA/RCRA Program Manager, Regional Office

UDERR Phillip Greer, Environmental Scientist
Brent Everett, Voluntary Cleanup Program Manager

NRCS Dave Hansen, District Conservationist
Cindy Burton, Range Conservationist

SNOWBIRD Jim Baker, InfraStructure Superintendent
Marty Banks, Attorney

TROUT UNLIMITED Ted Fitzgerald, AFC Home Rivers Project Manager

AGENDA:

9:30 Participants Meet at Tibble Fork Reservoir – Introductions
10:00 Arrive at Forest Service Repository – Discuss Pros and Cons
10:30 Review Reclamation Techniques at FS Stockpile Area
10:45 View Scotchman #2 Mine Waste Rock Pile
11:00 Review Reclaimed Pacific Mill Tailings Pond
11:30 Discussion and Inspection of Pacific Reclamation/Repository
12:15 Lunch
12:45 Discuss Mill Site, Blue Rock Waste Rock Pile, and Borrow Site

----- *Some Participants Leave Tour*

1:30 Stop at Miller Hill Tunnel and Borrow Area
1:45 Travel to Live Yankee In Mary Ellen Gulch
2:30 Discuss Potential Restoration Techniques for Live Yankee/Globe Mines
4:30 Arrive Back at Tibble Fork Reservoir and Separate for Trip Home

MAJOR ITEMS OF DISCUSSION:

Participants' Roles – Trout Unlimited, Snowbird, Agencies
Reclamation Techniques To Be Utilized – Variations from FS Project
Liability Issues – VCP with Utah or Consent Order with EPA
Engineering Evaluation and Cost Analysis
Other Permits/Authorizations Required
Proposed Implementation Schedule – Feasibility
Funding Expectations and Dependency
Use of Forest Service Roads – Permits/MOU
Guardrail Removal and Reuse
Miller Hill Tunnel Land Owner Contact Attempts
AML Awareness and Recognition Signing

PROPOSED RECLAMATION

MOBILIZE EQUIPMENT, MATERIALS, AND WORKFORCE:

- Trackhoe Excavator
- D-5 Dozer
- Two Articulated Dump Trucks
- Cache of Hand Tools for Emergency Firefighting
- Fuel/Mechanics Truck
- Reshape the North Fork Road as Needed for Access – Minimize Effort
- Bring In Materials; Silt Fences, Straw Bales, Culverts, Pipes, Etc.

PACIFIC MINE:

- Install Erosion Control Devices – Silt Fences and Straw Bales
- Clear Trees and Brush on Repository Footprint – Deck Trees
- Remove and Salvage Guardrail Section
- Install Culvert at Road Crossing
- Install Pipe Adapter at Mine Discharge – Double to Single Pipe
- Collect Rock Below the Waste Rock Pile
- Bury Abandoned Automobile in Waste Rock Pile
- Place Extension on Ground Water Monitoring Well
- Dispose of Mill Site Material on Waste Pile
- Reshape Waste Rock Pile to Establish 3:1 Exterior Slopes
 - Do Not Damage North Loading Structure – Remove Two Others
- Establish Road at Toe of Repository to Pass Public Traffic
- Add Blue Rock Mine Waste Rock Pile to Repository
 - Layer Place Waste in Repository and Walk with Equipment (Typical)
- Add Scotchman #2 Waste Rock to Repository
- Finish Shaping Repository and Interceptor Ditch
- Cover Repository (with Liner Materials if Required, 3 Feet of Borrow Material)
- Reset Ground Water Monitoring Well Cap
- Prepare Repository for Seed, Mulch, and Fertilizer – Apply Each
- Remove and Dispose of Silt Fences – Break and Scatter Bales on Repository
- Construct Weathered Guardrail Vehicle Barrier Around Repository
 - Use Guardrail on Site and Add Additional Rail/Posts As Needed
- Install Regulatory and Informational Signing

PACIFIC MILL:

- Place Erosion Control Devices at Toe of Worksite – Silt Fences and Straw Bales
- Pioneer Access Road for Trackhoe Up Hillside
- Excavate Contaminated Material from Hillside for Removal to Repository
 - Start at Upper Concrete Wall Pulling Material Downhill
 - Remove Unstable Concrete Structures – Dispose of Them in Repository
 - Reshape Hillside as Proceeding Downhill in Preparation for Revegetation
- Stockpile Larger Trees for Use as Barrier at Toe of Reclaimed Hillside
- Proceed with Revegetation Efforts Including a Erosion Blanket on Steep Hillside
- Place Tree Barrier at Toe of Hillside and Install Signing

SCOTCHMAN # 2:

Excavate Waste Rock and Haul It to Repository
Reshape Hillside and Apply Revegetation Materials Including Erosion Blanket

BLUE ROCK MINE:

Improve Road for Truck Access to Waste Rock Pile
Remove Cabin and Loading Structure – Bury in Repository
Excavate Waste Rock Pile and Haul to Repository
Apply Revegetation Materials to Hillside
Obliterate Haul Road and Revegetate

BORROW SITE:

Clear Trees from Site within Work Limits
Remove and Stockpile Topsoil
Excavate Borrow Material and Place as Cover On Repository
Finish Grade Borrow Site and Place Topsoil
Scatter Downed Trees Over Site
Apply Seed, Fertilizer, and Mulch
Install Sign

MILLER HILL TUNNEL: *(This Site and Borrow Area are on NFS Lands)*

Remove and Salvage Barrier Rock at Access Point
Install Culverts to Gain Access to Disturbed Area
Prepare Haul Road from Borrow Area for Truck Traffic
Excavate Borrow Material and Place as Cover on Disturbed Area
Apply Seed, Fertilizer, and Mulch to Disturbed Area and Borrow Site
Remove Culvert from Stream and Reshape Streambed
Replace Barrier Rocks Along Streambank
Dispersed Camping Area Reopened to Public

REMOVE EQUIPMENT AND EXCESS MATERIALS FROM CANYON – COLLECT MONEY